

Presented to
CONOPS for CIDS Workshop
8 September 1999
by
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System Resources Corporation

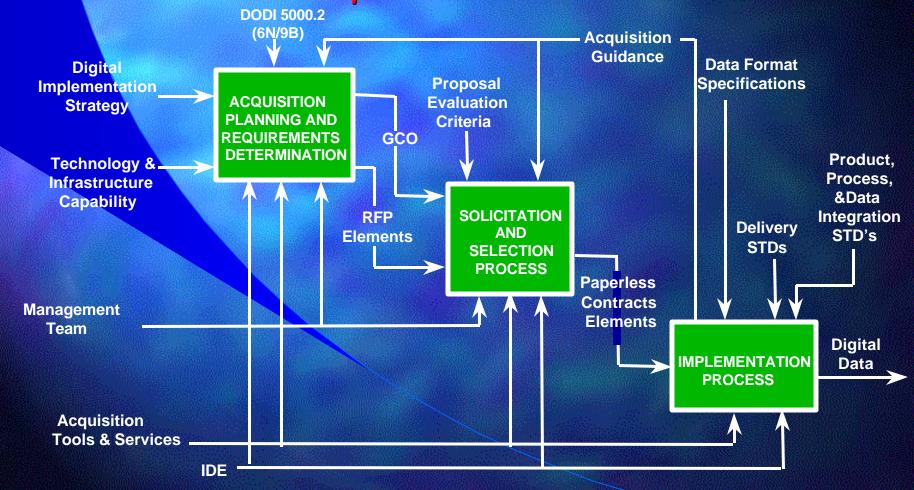
Subsidiary of Titan Corporation

Contractor Integrated Technical Information Services (CITIS)

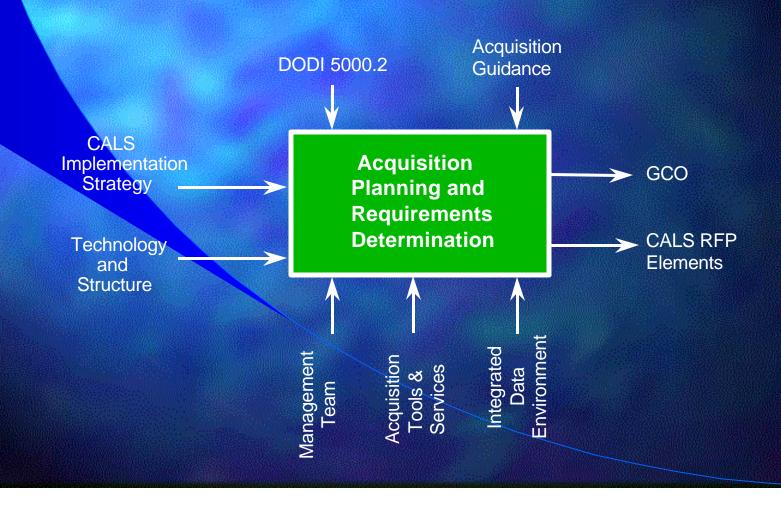
OUTLINE

- ★ PAPERLESS ACQUISITION
 - Acquisition planning and requirements determination.
 - Solicitation and source selection process.
 - ★ Implementation processes.
- * CITIS STRATEGIES
- * LESSONS LEARNED
- **★** SUMMARY

PAPERLESS ACQUISITION Acquisition Process



Acquisition Planning and Requirements Determination

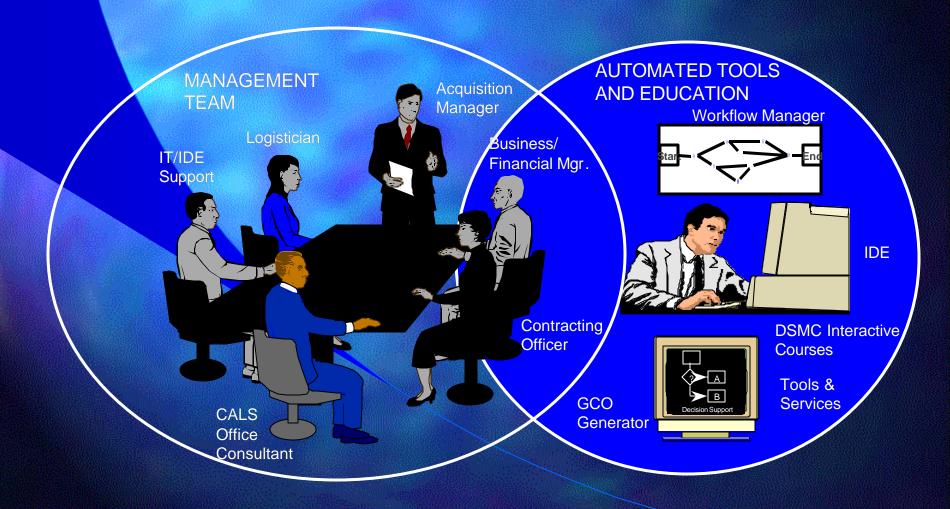


Acquisition Planning and Requirements Determination

Acquisition Guidance:

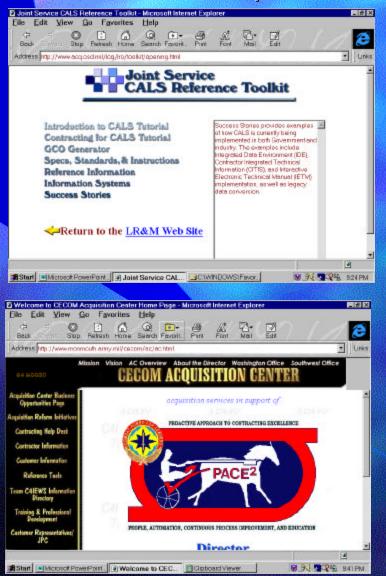
- ★ Defense Acquisition Deskbook (D.A.D.)
- ★ Joint Services CALS Reference Toolkit
- ★ PM's Desktop Guide for CALS Implementation
- ★ MIL-STD-974 (CITIS)
- ★ Service and Site-Specific Guidance
 - ★ Directives and Implementation Plans
 - **★** Tools and Services

Acquisition Planning Support Mechanisms



INTEGRATED PRODUCT & PROCESS DEVELOPMENT (IPPD) TEAMING

Acquisition Tools and Services





Selected References URLs:

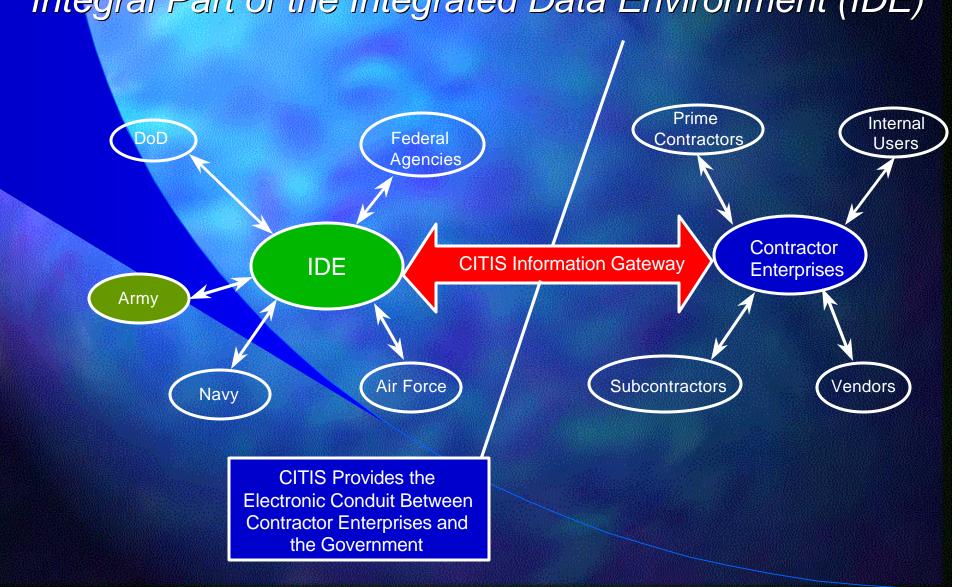
- Defense Acquisition Deskbook http://www.deskbook.osd.mil
- ★ Joint Services CALS Reference Toolkit
 - ★ GCO Generator
 - ★ Contracting for CALS Tutorial (DSMC) http://www.acq.osd.mil/log/lro/toolkit/
- ★ CECOM Acquisition Center
 - http://www.monmouth.army.mil/cecom/ac/ac.html
- ★ CECOM Business Opportunity Page
 - ★ Http://www.monmouth.army.mil/cecom/ac/ac.html
- ★ Electronic Commerce Resource Center http://www.ecrc.ctc.com

Government Concept of Operations (GCO)
Assists Acquisition Manager in determining:

- Data users, data types, frequency of use, and timeliness of data access delivery.
- ★ Data use and review/approval processes to support life cycle functions.
- Users' locations and primary functions in support of the defense system.
- ★ Data interchange requirements (format, media, standards, and telecommunications).
- Security, access authorizations, and restrictions; data rights, data stewardship, and data ownership.
- Hardware and software systems to manage and use the data [IDE/CITIS].

CITIS

Integral Part of the Integrated Data Environment (IDE)



IDENTIFY

1. IDENTIFY WHAT TYPES OF DATA ARE REQUIRED GCO Process

2. IDENTIFY WHO WILL USE THE DATA

3. IDENTIFY HOW THE USER WILL USE THE DATA

4. IDENTIFY THE USERS' INFRASTRUC-TURE

5. IDENTIFY TYPE OF DATA DELIVERABLES

DETERMINE

6. DETERMINE THE REQUIRED DATA FORMAT

7. DETERMINE THE DATA INTERCHANGE STANDARDS

8. DETERMINE MECHANISMS/ MEDIA FOR DATA DELIVERY/ACCESS (CITIS)



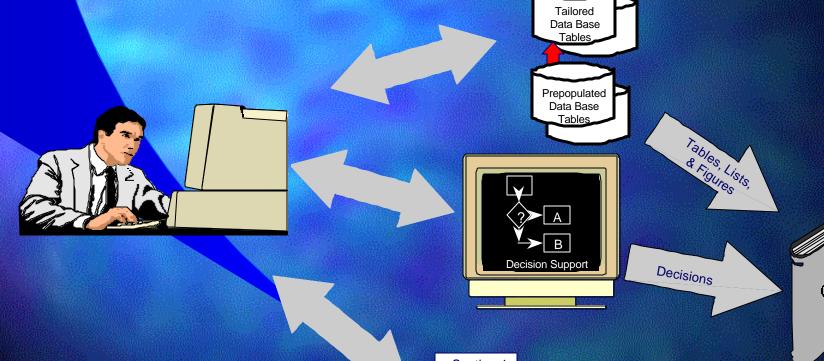
Manual GCO Generation



Manual Preparation



OSD GCO Generator



Section 1
Editable
Boiler
Plate
Files

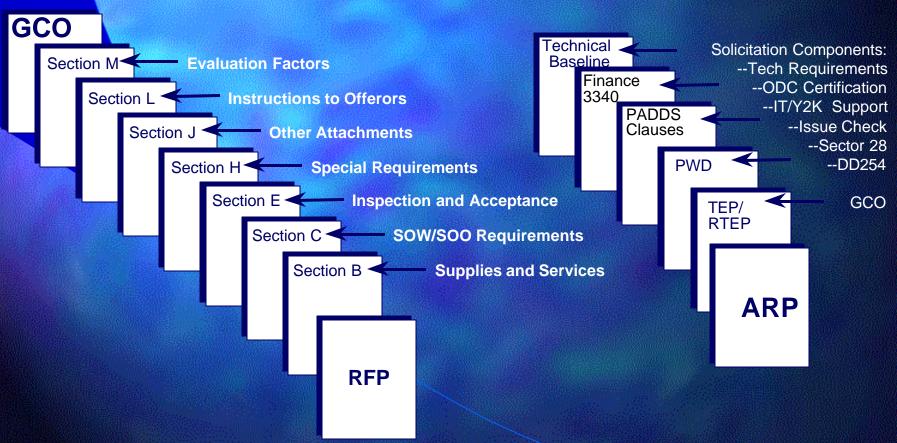
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3
4
5



CALS Language in an RFP or an ARP

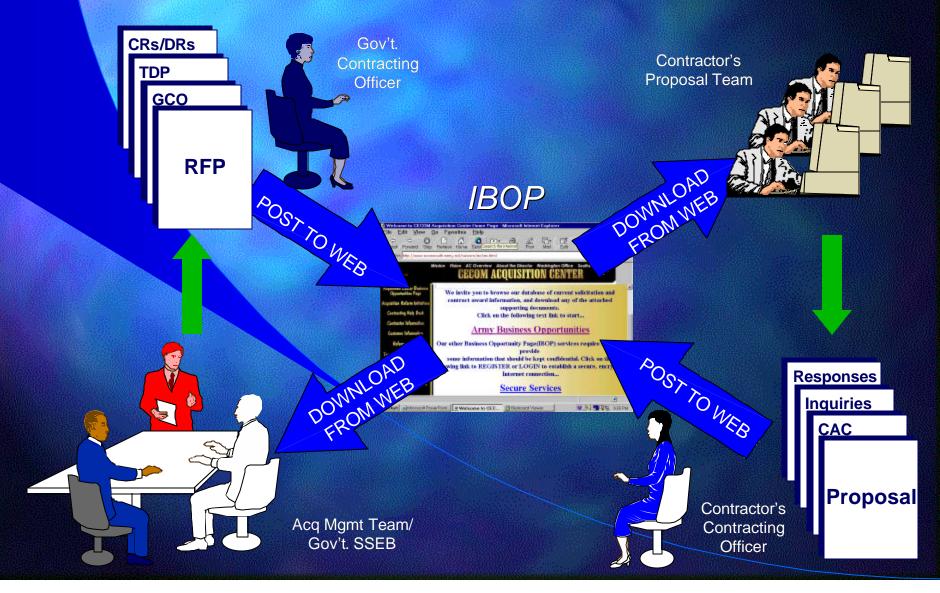
New Acquisition

Spares Reprocurement



U.S. Army CALS Implementation Plan, Contracting for CALS Tutorial (DSMC), and MIL-HDBK-59B Provides Guidance and Sample Language

PAPERLESS ACQUISITION Solicitation and Selection Process **ACQUISITION GUIDANCE** PROPOSAL **EVALUATION** GCO CRITERIA **SOLICITATION PROCESS** GCO **CALS RFP** ELEMENTS CONTRACTOR **APPROACH TO** CONTRACTOR CALS (CAC) **RFP PROPOSAL PROCESS** MANAGEMENT **TEAM PAPERLESS** CONTRACT **SELECTION ELEMENTS PROCESS ACQUISITION** SERVICES & TOOLS IDE



CITIS Contractor's Approach to CALS (CAC*)

CAC should respond to the GCO/SOW and include:

- Contractor's approach and experiences in regard to digital information.
- Formal procedures for integrating applications and data bases.
- Contractor's approach to CITIS.
- ★ Statement of the plan's purpose and scope.
- ★ CALS program management.
- CITIS system test and evaluation.
- Information system description.
- Data protection and integrity.

*CAC has had many names: Contractors IDE/Implementation Concept, CALSIP, SPI etc., but they all essentially mean the same.

CITIS

CITIS Planning & Evaluation Considerations

- Phase of Acquisition Life Cycle
 - ★ Initial Procurement
 - Reprocurement of Spares/Items/System

GOVERNMENT-STORED

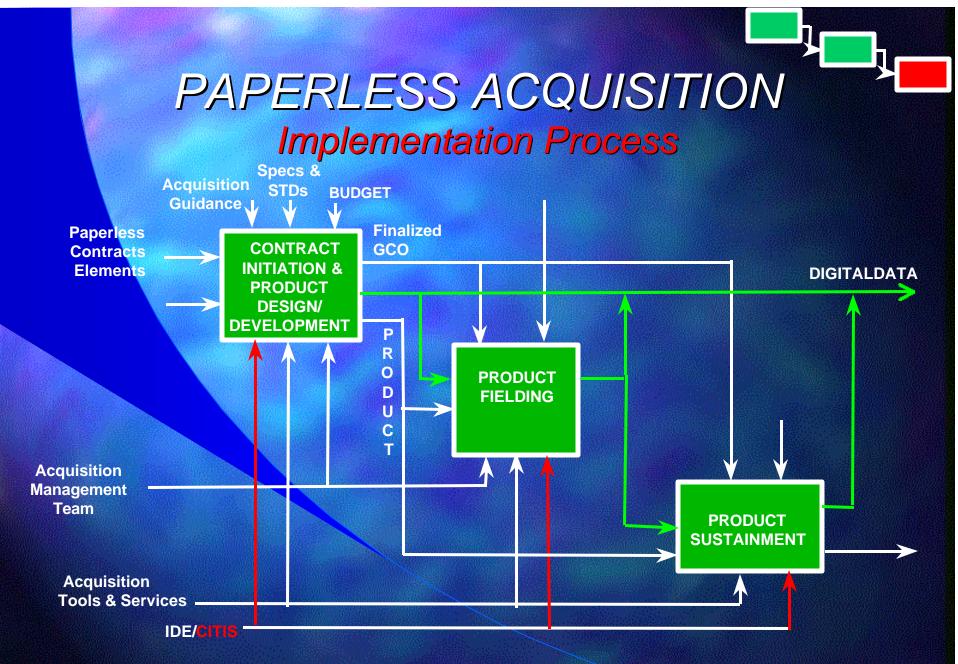
CONTRACTOR-STORED

DESIGN/DEVELOPMENT

FIELDING

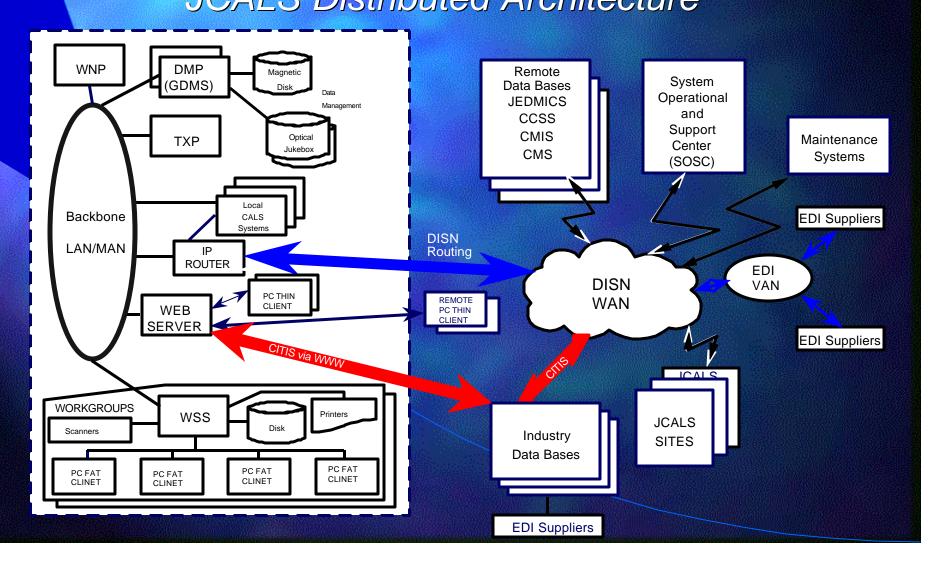
SUSTAINMENT

- ★ Maintenance/Sustainment Strategy
- ★ Criticality of Visibility/Schedule
- Volatility/Frequency/Quantity of Data
- Single or Multiple Contracts/Vendors
- * Availability of Mature IDE and Tools



Each Activity in the Process has a Complementary Government and Contractor Role and Responsibility

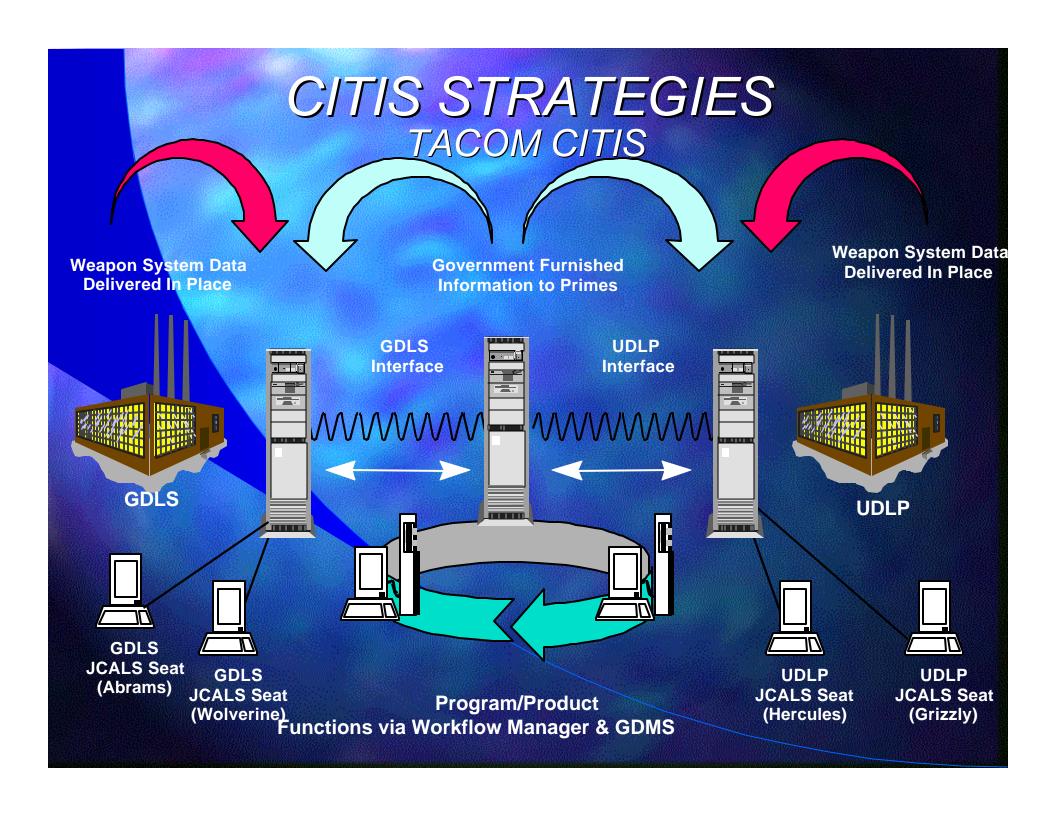
INFRASTRUCTURE MODERIZATION INITIATIVES JCALS Distributed Architecture



CITIS STRATEGIES

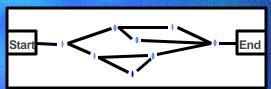
TACOM CITIS Initiatives:

- ★ CMS/M1A1 CITIS
 - ★ Servers operating at Detroit Arsenal and CITIS Servers operating at GDLS and UDLP
 - ★ Workflow among ACALA, ARDEC, & TACOM
- ★ Electronic Contract Folderization (ECF)
 - Mimicked Packaging & Movement of Contract Info in Folders Using JCALS Workfolders/Workflow
 - ★ DLA-originated CITIS for Small Purchases
- Joint Electronic Folderization (JEF)
 - ★ More Generic Version of ECF
 - ★ Expansion to Provisioning and fuller Contracting



CITIS STRATEGIES TACOM CITIS GDMS and Workflow Manager Enables CITIS

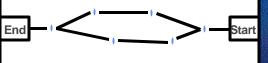






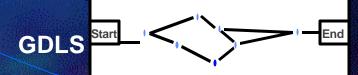




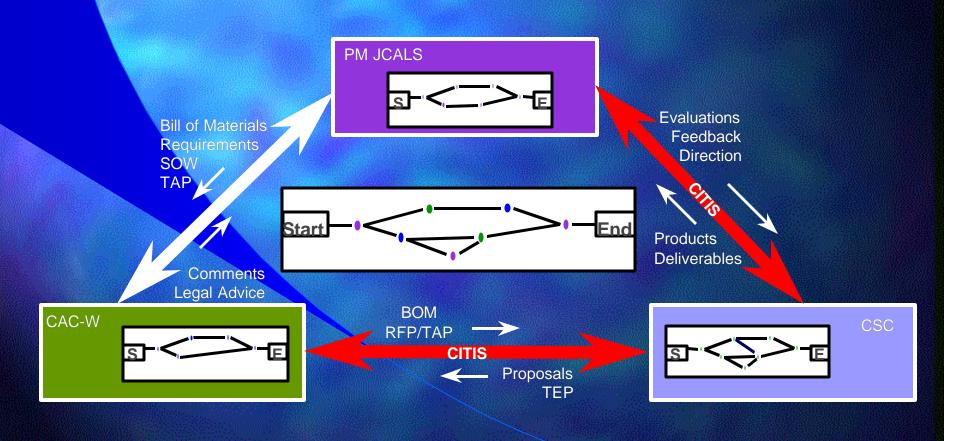


UDLP



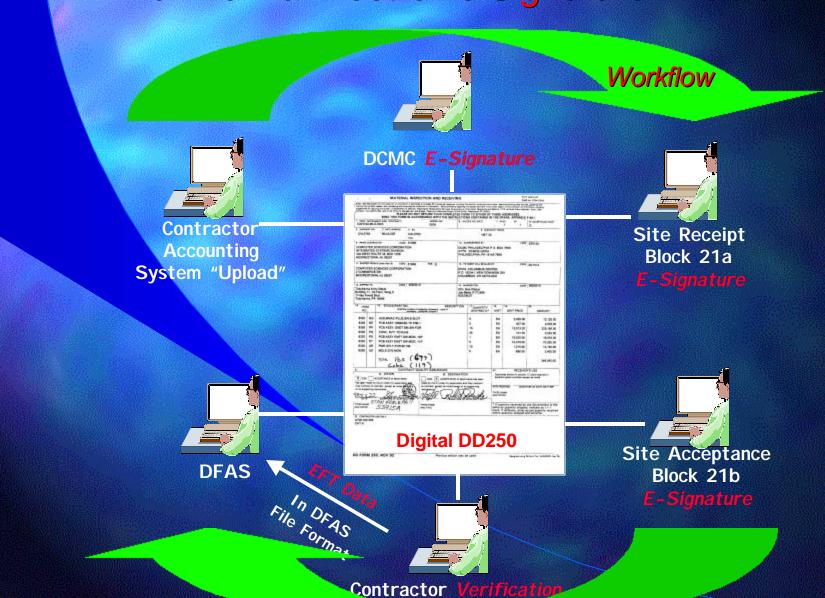


CITIS STRATEGIES PM JCALS Contracting CITIS using JCALS

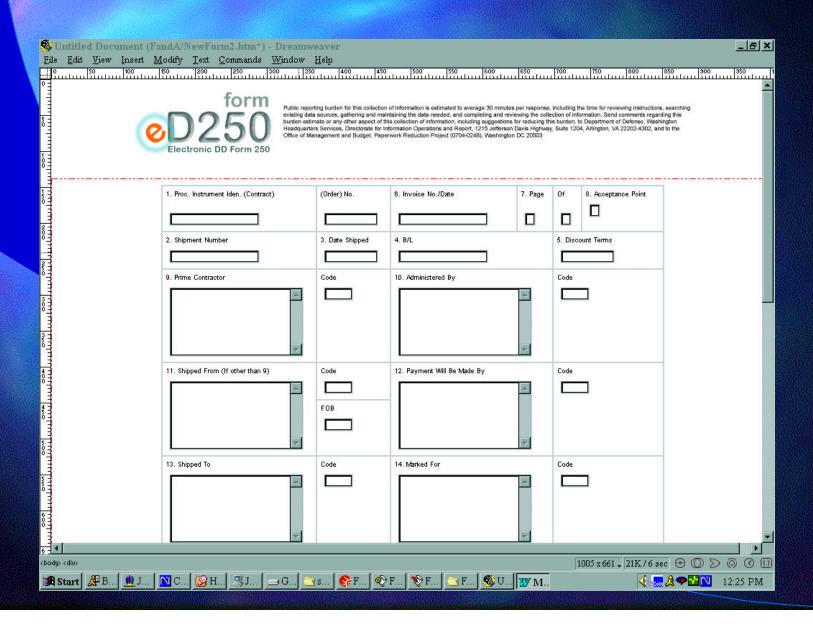


PM JCALS Will Employ Its Own System to Implement Contracting Process
Among Participants Using Workflow and GDMS

DD250 Process Workflow & Electronic Signature Enabled

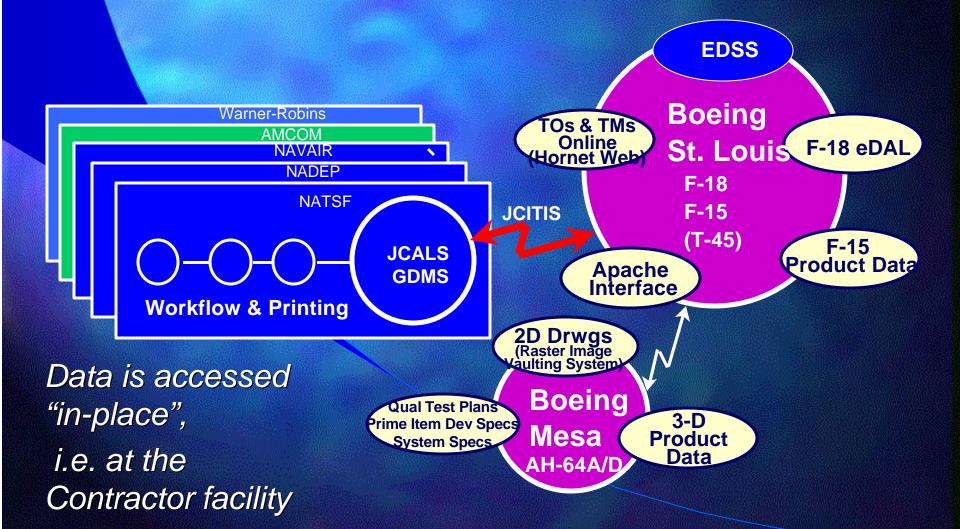


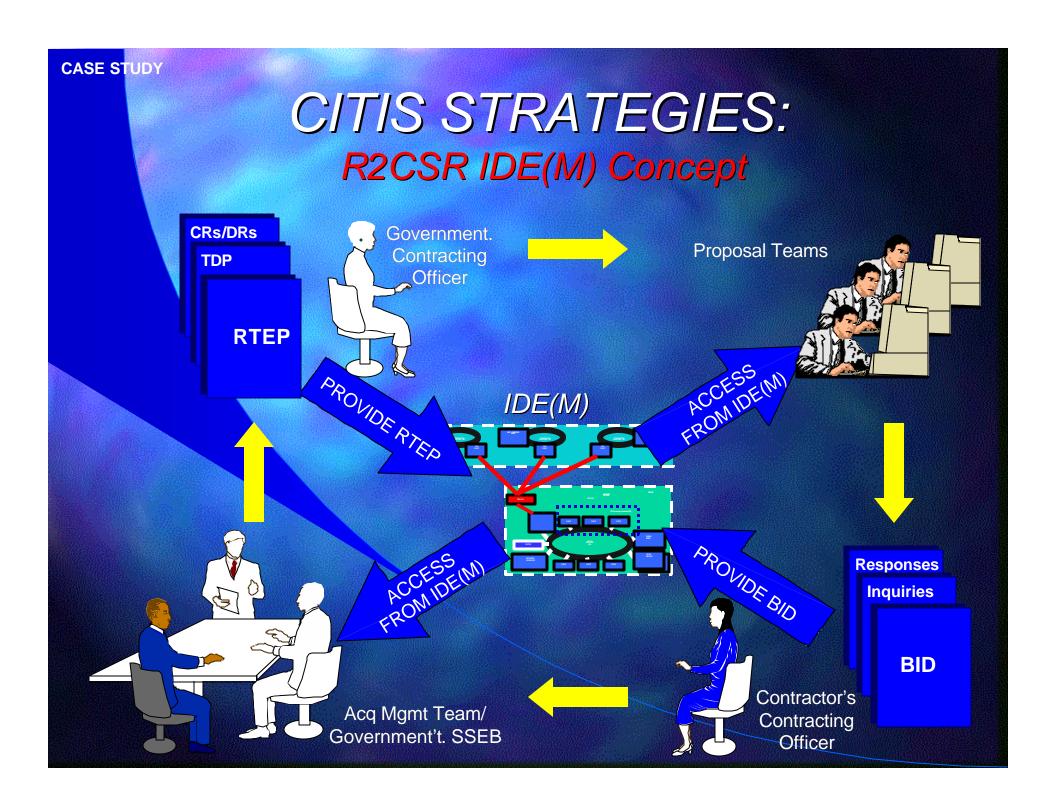
DIGITAL DD250 Form Replication & DB



CITIS STRATEGIES

Joint CITIS Project

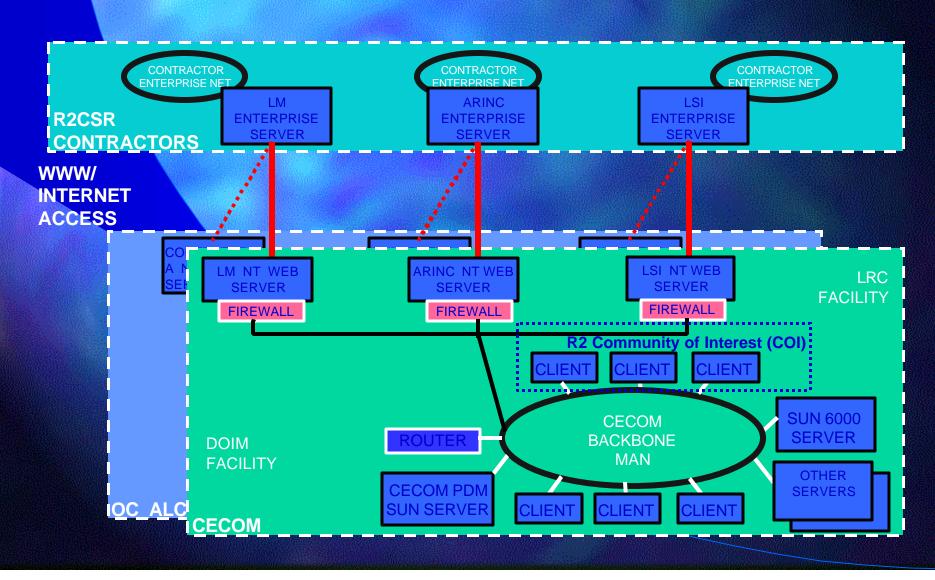




R2CSR IDE(M) Requirements & Issues

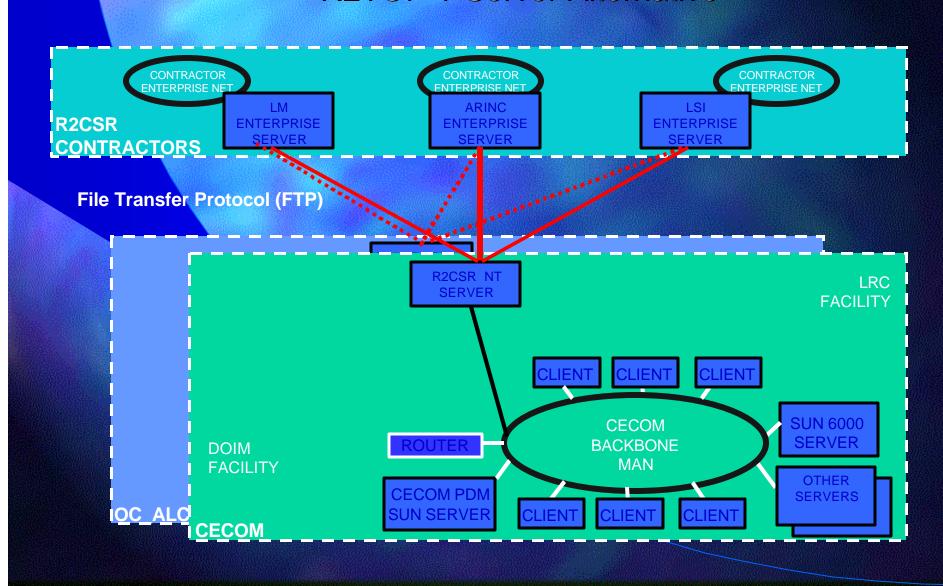
- Requirements
 - → Omnibus, RTEP-driven Rapid Response Contract
 - Mandated 7-Day Response Time and Need for Task Status Visibility for Ongoing Spares Contract
 - ★ Need for Secure, Segregated CITIS Transactions
- * Issues:
 - ★ 3 Teams [20+ Subcontractors] With Different Contractor Enterprise Solutions
 - ★ 2 Government Agencies, Each With Its Own Responsibilities & IDE Solutions/preferences
 - ★ Unwillingness And/or Economic Inability to Create a Single Homogenous System
 - ★ BOP Solution not Flexible Enough

CITIS STRATEGIES R2CSD IDE(M) R2TOP 3-Server Alternative

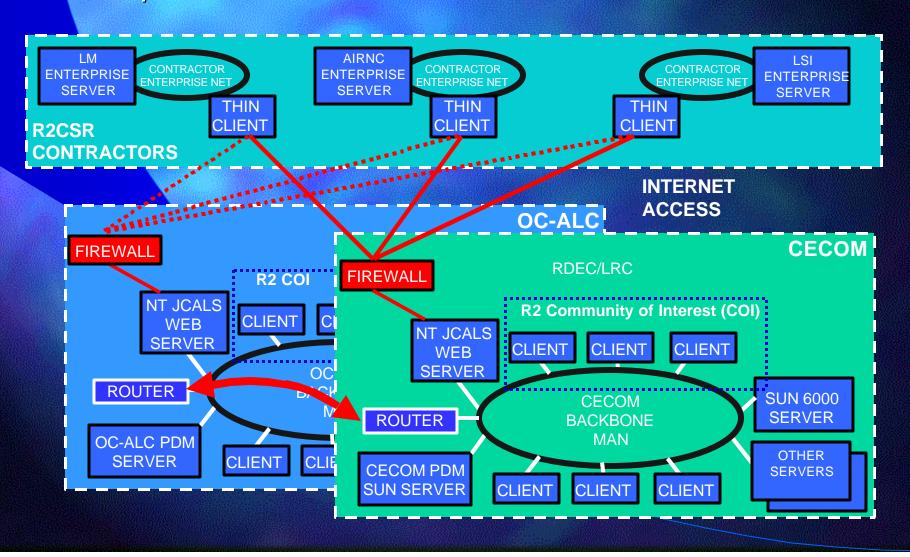


CASE STUDY

CITIS STRATEGIES R2CSD IDE(M) R2TOP 1-Server Alternative



CITIS STRATEGIES R2CSR IDE(M) Proposed JCALS Thin Client Workflow Alternative



CASE STUDY

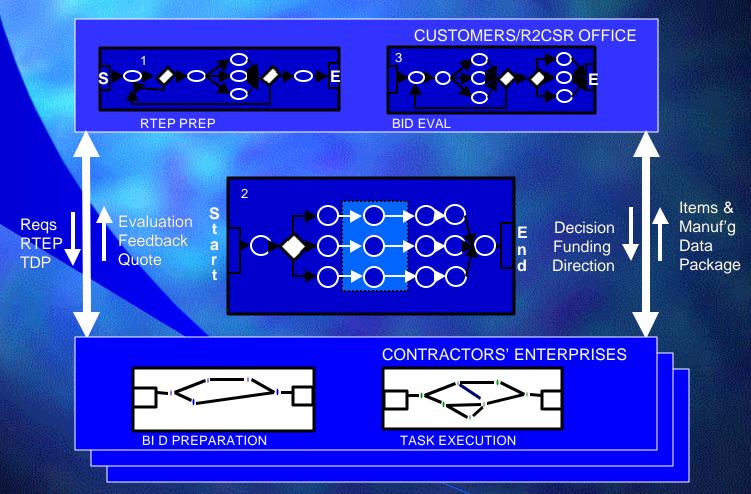
R2CSR IDE(M) Solution & Lessons Learned

- Requirements
 - ★ Omnibus, TAP-driven Rapid Response Contract
 - Mandated Schedule Response
 Time and Need for Task Status
 Visibility for Spares Contract
 - Need for Secure, Segregated CITIS Transactions
- * Issues:
 - ★ 3 Teams [20+ Subcontractors] With Different Contractor Enterprise Solutions
 - ★ 2 Government Agencies, Each With Its Own Responsibilities & IDE Solutions/preferences
 - ★ Unwillingness And/or Economic Inability to Create a Single Homogenous System
 - ★ BOP Solution not Flexible

- Proposed Solution:
 - Use JCALS Workflow Manager, Workfolders, and GDMS software capabilities to provide:
 - ★ Secure, Segregated Transactions
 - ★ RTAP/RTEP and deliverable Transmittal and Response Time Logging
 - ★ Task Status Visibility and Metrics
 - ★ Repeatability of Process Thru Use of Workflow Templates
 - ★ Use of JCALS Infrastructure, Featuring the JCALS Web Server, at CECOM RDEC
 - ★ Thin Client Access to Web Server Hosting Workflow/Workfolder
 - ★ Thin Client Allowed Other Sites to Remain With Own Solutions While Providing an "Air-gapped" Bridge to RDEC Acquisition Manager

CASE STUDY

R2CSR IDE(M) PILOT Workflow Manager-Enabled R2 Process



CECOM Will Employ JCALS To Implement R2CSR Process Among Participants Using Workflow And GDMS

LESSONS LEARNED

- ★ Complex, Multi-vendor Contract for Several Products Over the Full Life Cycle Is Analogous to a Unified CITIS Solution for the Whole Army
- ★ CONOPS for CIDS, like a GCO, must:
 - ★ Address Each Phase of the Full Life Cycle
 - Provide Flexible CITIS "Access" (Deliver in Place) Vs "Download" (Deliver Indeed) Model to Suit the Acquisition Managers' CM and Budget Needs As Well As Phase of Life Cycle
 - Acknowledge That the Contractors' Corporate and Teaming Enterprise Solutions Are Perhaps More Varied Than the Army's; the cost and management of individual solutions are escalating
 - ★ Use of a Pervasive, Common Army Infrastructure and Flexible Tools to Minimize Costs and to Leverage Existing Solutions
 - ★ Address/Reconcile Communications Bandwidth Issues (of DISN) to Minimize Manifold Individual Comm Costs
 - ★ Address the volatile and ever-increasing data format issues

SUMMARY

- ✔ Unified CITIS Solution for the Whole Army Is Analogous to a Complex, Multi-vendor Contract for Several Products Over the Full Life Cycle Except It's Bigger and the Army Can Reap Greater Savings and Benefits
- → Paperless Acquisition is a Team Effort
 - ★ Acquisition, Logistics, and R&D Centers; IT/IDE Support, Business, KO, and PM/PEO
 - ★ Requires a Team Solution
- Army CITIS CONOPS Must Implement a Flexible Solution that Embraces all Phases of the Product Life Cycle
- Tools, Services, and references are available to facilitate the effort
- Existing Infrastructure/IDE Can Support CITIS and Paperless Acquisition

INTERNET ADDRESSES

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Selected References URLs:

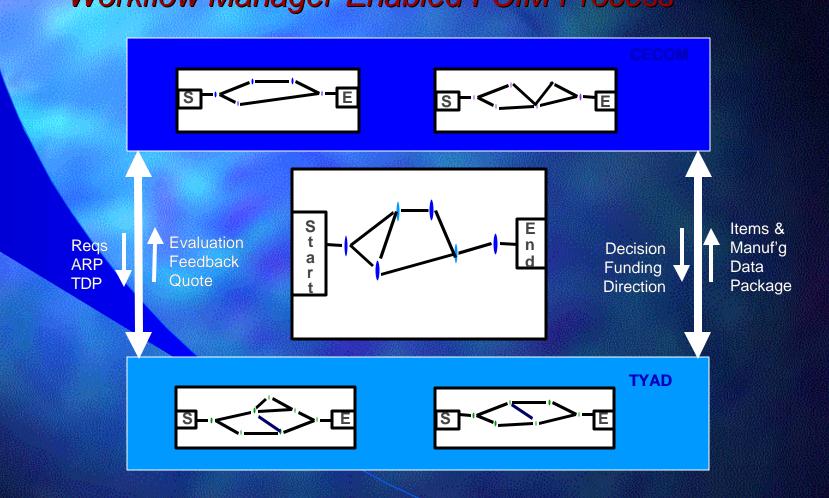
- ★ Defense Acquisition Deskbook http://www.deskbook.osd.mil
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 - ★ GCO Generator
 - ★ Contracting for CALS Tutorial (DSMC) http://www.acq.osd.mil/log/lro/toolkit/
- ★ CECOM Acquisition Center
 - http://www.monmouth.army.mil/cecom/ac/ac.html
- ★ CECOM Business Opportunity Page
 - Http://www.monmouth.army.mil/cecom/ac/ac.html
 - ★ http://134.80.11.9/
- ★ Electronic Commerce Resource Center http://www.ecrc.ctc.com

CECOM IDE/FCIM PILOT CECOM-TYAD FCIM Process

ID ITEM & **DETERMINE DEVELOP ACQ STRAT ACQUISITION REQUEST GATHER** FORM (ARP) **TECH INFO &** COMPLETE **TRANSMIT** ARP **ARP TO REVIEWS ARP TYAD** & SUBMITS **ESTIMATE PROCESSES** BID, FUNDS, & **REVIEW PKG, INITIATES** PREPARE BOM, **PRODUCTION ACQUIRE PARTS,** PRODUCE/SHIP & DEVELOP **ITEM & XMIT** MANUF. DATA **APPLICABLE COMPLETE** DATA **PROCESS & ISSUE ITEM** = CECOM

= TYAD

CECOM IDE/FCIM Workflow Manager-Enabled FCIM Process



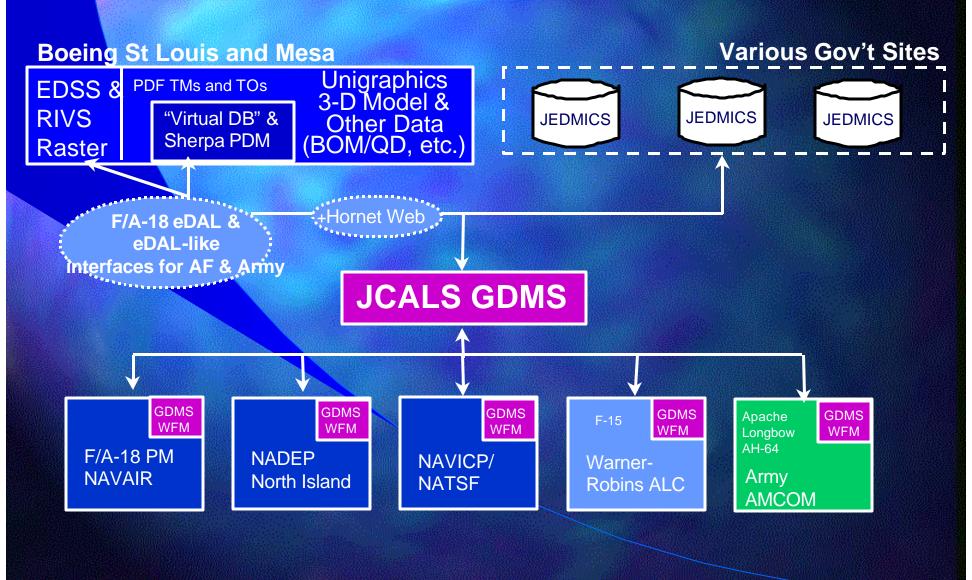
CECOM And TYAD Will Employ JCALS To Implement FCIM Process
Among Participants Using Workflow And GDMS

CITIS STRATEGIES

JCITIS Objectives

- ★ Assess Capability to Improve Business Processes
 - Reduced Cycle Time Using GDMS & Workflow Management Tools
- ★ Evaluate Access to Digital Technical Data
 - Ease of Access to Various Types of Data, Such As 3-D CAD
- Determine Requirements for Implementation of Production System
 - Assess Impact to Current Information Infrastructure (WANs, LANs, Servers/Clients)
- Assess Impact to Current CITIS Arrangements
 - Changes in Costs and Benefits
 - Contractual Modifications

CITIS Joint CITIS Project



CITIS

* AF GPS

- Implements an automated ECP process that connects 4 AF activities, 2 contractors (300 users)
- * NAVY JCALS
 - ★ 30+ sites connected to 12 Navy and contractor engineering drawing and technical data repositories.

* DLA

- ★ Electronic Contract Folderization automates the delivery and routing of Procurement requests and subsequent contract actions on small (less that \$25K)
- ★ Contract data will be available on-line to DFAS to support the bill-paying process and will help to reduce unmatched disbursements